NNN		NNN	CC	ccccc	CCCC	PPPPPP	ррррр	
NNN		NNN		CCCCCC		PPPPPP		
NNN		NNN		222222		PPPPPP		
NNN		NNN	ເເເັ			PPP		PP
NNN		NNN	555			PPP		PP
NNN		NNN	222			PPP		PP
NNNN	JAJ	NNN	333			PPP		PP
NNNN								
		NNN	CCC			PPP		PP
NNNN		NNN	CCC			PPP		PP
NNN	NNN	NNN	CCC			PPPPPP		
NNN	NNN	NNN	CCC			PPPPPP		
NNN	NNN	NNN	CCC			PPPPPP	PPPPP	
NNN		INNNN	CCC			PPP		
NNN	NA	INNNN	CCC			PPP		
NNN	NN	INNNN	CCC			PPP		
NNN		NNN	CCC			PPP		
NNN		NNN	CCC			PPP		
NNN		NNN	ČČČ			PPP		
NNN		NNN		CCCCCC	cccc	PPP		
NNN		NNN		00000		PPP		
NNN		NNN		333333		PPP		
		141414						

NN NN NN NN NN NN NNNN NN NNNN NN NN NN	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	MM MM MM MM MMMM MMMM MMMM MMMM MM MM MM		NN
		\$			

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1 *

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```
O %TITLE 'Main Entry'
O MODULE NCPMAIN (IDENT = 'V04-000', MAIN = NCP$MAIN,
O ADDRESSING_MODE(EXTERNAL=GENERAL),
O ADDRESSING_MODE(NONEXTERNAL=GENERAL)) =
1 BEGIN
```

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15-Sep-1984 23:46:03 14-Sep-1984 12:48:14

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FACILITY: NCP Network Control Program

ABSTRACT:

NCP main entry and command line acceptance

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Darrell Duffy , CREATION DATE: 17-August-1979

MODIFIED BY:

V03-003 PRD0057 Paul R. DeStefano 05-Feb-1984 No longer need to save CLI verify state.

V03-002 RPG0002 Bob Grosso 03-Aug-1982 Stop NCP from automatically starting the NETACT.

V03-001 RPG47232 Bob Grosso 21-Jul-1982 Increase size of command input buffer, sysin_buf_siz.

V002 TMH0002 Tim Halvorsen 13-Jul-1981 Change all non-local references to general addressing.

V001 TMH0001 Tim Halvorsen 13-Jun-1981

NCPMAIN V04-000	Main Entry	I 14 15-Sep-1984 23:46:03
: 58 : 59 : 60 : 61	0058 1 0059 1 0060 1 0061 1	If invoked via DCL foreign command and there is text following the "verb", then execute the text as a single NCP command and exit.

```
NCPMAIN
                      Main Entry
Definitions
                                                                                       15-Sep-1984 23:46:03
14-Sep-1984 12:48:14
                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[NCP.SRC]NCPMAIN.B32;1
V04-000
                      0062 1
0063 1
0064 1
0065 1
     63
64
65
                              1 %SBTTL 'Definitions'
                                 ! TABLE OF CONTENTS:
     66
     67
                      0066
0067
     68
     69
70
71
                      0068
                             1 FORWARD ROUTINE
                      0069
0070
                                           NCP$COND_HDLR,
                                            NCP$READ_CMD
     72
73
74
75
76
77
                      0071
                      0072
0073
                      0074
                                   INCLUDE FILES:
                      0075
                      0076
0077
     78
79
                                LIBRARY 'OBJ$:NCPLIBRY.L32':
                                LIBRARY 'SYS$L'BRARY:STARLET.L32';
LIBRARY 'SYS$LIBRARY:TPAMAC.L32';
                      0078
     80
                      0079
     81
82
83
                      0800
                      0081
                      0082
                                   MACROS:
     84
     85
                      0084
     86
                      0085
     87
                      0086
                                   EQUATED SYMBOLS:
     88
                      0087
     89
                      8800
    90
91
93
93
95
96
97
98
90
                      0089
                      0090
                                   OWN STORAGE:
                      0091
                      0092
                      0093
                      0094
                      0095
                      0096
                                   EXTERNAL REFERENCES:
                      0097
                      0098
                      0099
                                EXTERNAL ROUTINE
    101
102
103
104
                      0100
                                           NCP$INIT_TRMIO,
                                                                                          Initialize terminal I/O
                      0101
                                           NCP$STARTNETACP : NOVALUE,
                                                                                          Start the network if not
                                           NCPSREAD LINE,
NCPSWRITE LINE,
NCPSPARSE CMD,
NCPSUNTELE,
                      0102
                                                                                          Read a line from SYS$INPUT
                                                                                          Write a line to SYS$OUTPUT Parse a command line
    105
                      0104
    106
107
                      0105
                                                                                          Remove the tell executor
                      0106
0107
0108
                                           ACT$VRB_CLEXEC,
                                                                                          Remove the current executor and
    108
                                                                                          Establish the local node as exec
    109
                                           LIB$GET_FOREIGN: ADDRESSING_MODE(GENERAL); ! Get foreign command line
```

```
K 14
NCPMAIN
                      Main Entry
NCP$MAIN Main Entry
                                                                                         15-Sep-1984 23:46:03
14-Sep-1984 12:48:14
                                                                                                                           VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[NCP.SRC]NCPMAIN.B32;1
V04-000
                                 **XSBTTL 'NCP$MAIN Main Entry' ROUTINE NCP$MAIN =
    112
                      ŎijĬ
                      0112
0113
0114
0115
    114
                                  ! FUNCTIONAL DESCRIPTION:
    115
    116
    117
                                            Main entry for NCP
                      0116
    118
    119
                                    FORMAL PARAMETERS:
                      0118
    120123456789012334567
11233456789012334567
                      0119
                                            NONE
                      0120
0121
0122
0123
0124
0125
0126
                                    IMPLICIT INPUTS:
                                            NONE
                                    ROUTINE VALUE:
                                    COMPLETION CODES:
                      0128
0129
0130
                                            Exit code for NCP
                                    SIDE EFFECTS:
                      0131
                      0132
0133
0134
0135
                                            LOTS
    138
139
                      0136
0137
                                       BEGIN
                      0138
    140
                                       BUILTIN
                      0139
    141
                                            FP,
                                                                                         ! Frame pointer
    142
                      0140
                                                                                         ! Argument pointer
                      0141
                      0142
0143
0144
0145
    144
                                       LITERAL
    146
                                            SYSIN_BUF_SIZ = 1024
                                                                                         ! Size of input buffer
                      0146
0147
0148
0149
0150
0151
0153
0154
0157
0158
0160
0161
    148
149
150
151
152
153
154
155
                                            CMD_DSC : VECTOR [2],
                                                                                            Command line buffer descriptor
                                            SYSIN BUF :
                                                                                            Sys$input buffer
                                                  VECTOR [SYSIN_BUF_SIZ, BYTE]
                                       BIND
                                            NCP_PMT_DSC =
    156
157
                                                                                         ! Descriptor of NCP prompt
                                                        ASCID ('NCP>')
    158
159
                                            CLIBLK = AP: REF BBLOCK
                                                                                         ! Arg block from calling cli (DCL)
    160
                                       GLOBAL BIND
    161
    162
163
                                                                                         ! Descriptor for sysinbuf
                                            NCPS_CMDBUF_DSC =
                                                       UPLĪT (SYSIN_BUF_SIZ, SYSIN_BUF)
                      0162
0163
0164
0165
    164
    165
    166
                                       LOCAL
                                            RTN_DSC : VECTOR [2]
    167
                                                                                        ! Returned descriptor
```

VÓ

```
V0
```

```
14
                                                                                     15-Sep-1984 23:46:03
14-Sep-1984 12:48:14
NCPMAIN
                     Main Entry
NCP$MAIN Main Entry
                                                                                                                     VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[NCP.SRC]NCPMAIN.B32;1
V04-000
                     0166
0167
0168
0169
0170
0171
    168
                             169
    170
                                     EXTERNAL
    171
                                          NCP$G_BEGIN_ZERO.
                                                                                       Parameter data blocks to clear
    172
                                          NCPSG_END_ZERO,
NCPSG_STATE_TBL,
                                                                                       End of the blocks
    173
                                                                                     ! State table for parsing
                     0172
0173
    174
                                          NCP$G_KEY_TBL
    175
                     0174
0175
0176
0177
   176
   177
                                     NCP$INIT_TRM10 ();
                                                                                     ! Initialize terminal I/O
    178
   179
                                      NCP$STARTNETACP ():
                                                                                     ! Start the network, if not started
                     0178
    180
                                     .FP = NCP$COND_HDLR:
                                                                                     ! Enable the handler
                     0179
    181
                     0180
   182
                                     ACTSVRB_CLEXEC ();
                                                                                     ! Establish link to local node
                     0181
    183
                     0182
0183
                                     IF LIB$GET_FOREIGN(NCP$_CMDBUF_DSC,0,CMD_DSC) ! If a foreign command, AND .CMD_DSC [O] NEQ 0 ! and there is a command line,
   184
    185
                     0184
    186
                                     THEN
                     0185
   187
                                          BEGIN
                                          CMD_DSC [1] = SYSIN_BUF; ! Construct descriptor of line
CH$FILL(0,NCP$G_END_ZERO-NCP$G_BEGIN_ZERO, ! Zero parame
NCP$G_BEGIN_ZERO);
NCP$PARSE_CMDTCMD_DSC,NCP$G_STATE_TBL,NCP$G_KEY_TBL,RTN_DSC);
                     0186
   188
                                                                                     ! Construct descriptor of line
   189
                     0187
                                                                                                         ! Zero parameters
                     0188
    190
   191
                     0189
                     0190
   192
                                          RETURN TRUE:
                     0191
   193
                                          END:
                     0192
0193
   194
   195
                                     WHILE
                     0194
                                          BEGIN
    196
   197
                     0195
                                          LOCAL
                     0196
   198
                                                READ_STATUS;
                     0197
   199
                                          READ_STATUS = NCP$READ_CMD
    200
                     0198
                                                                                     ! Read line into buffer
                     0199
    201
                     0200
                                               NCP$_CMDBUF_DSC.
    202
                                                                                       Buffer descriptor
                                               NCP_PMT_DSC.
                     0201
    203
                                                                                       Prompt descriptor
                     0202
0203
    204
                                                CMD_DSC
                                                                                     ! Return dsc of line
    205
                     0204
    206
                                          IF NOT .READ_STATUS
                     0205
    207
                                          THEN
                     0206
    208
                                               BEGIN
                     0207
    209
                                                IF (.READ_CTATUS NEQ RMS$_EOF)
                     0208
    210
                                                THEN
                                                     RETURN .READ_STATUS
                     0209
    211
    212
                     0210
                                                ELSE FALSE
                                                                                     ! EOF terminates without error
    213
                     0211
                                                END
                     0212
0213
                                           ELSE TRUE
    214
    215
                                          END
                     0214
                                     DO
    216
                                                                                     ! Do so until error returned
                     0215
                                          BEGIN
    217
                     0216
0217
    218
    219
                                          CH$FILL
                                                                                     ! Zero the parameter block area
                     0218
0219
0220
    220
   221
222
223
224
                                                                                     ! Fill character
                                               NCP$G_END_ZERO - NCP$G_BEGIN_ZERO, ! Count
NCP$G_BEGIN_ZERO ! Beginning address
```

```
M 14
15-Sep-1984 23:46:03
14-Sep-1984 12:+8:14
NCPMAIN
                     Main Entry
NCP$MAIN Main Entry
                                                                                                                       VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[NCP.SRC]NCPMAIN.B32;1
V04-000
                     0223
0224
0225
0226
0227
0228
0229
0230
   NCP$PARSE_CMD
                                                                                       ! Parse the command
                                                CMD_DSC,
NCP$G_STATE_TBL,
NCP$G_KEY_TBL,
RTN_DSC
                     0231
0232
0233
                                           NCPSUNTELL ()
                                                                                       ! Remove the tell executor
                     0234
                                           END
                     0235
                     0236
                                      ŘETURN TRUE
                                                                                      ! Return with success
   239
                                      END:
                                                                                                     .TITLE NCPMAIN Main Entry
                                                                                                               \V04-000\
                                                                                                     .IDENT
                                                                                                     .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                            3E 50 43 4E 00000 P.AAB:
                                                                                                     .ASCII \NCP>\
                                                                                 00004 P.AAA:
                                                                    00000004
                                                                                                    .LONG
                                                                    0000000
                                                                                                     .ADDRESS P.AAB
                                                                                 80000
                                                                                                   .LONG 1024
                                                                    00000400
                                                                                 0000C P.AAC:
                                                                    00000000
                                                                                                     .ADDRESS SYSIN_BUF
                                                                                 00010
                                                                                                     .PSECT SOWNS.NOEXE.2
                                                                                 00000 CMD DSC:.BLKB
                                                                                 00008 SYSTN_BUF:
                                                                                                               1024
                                                                                                     .BLKB
                                                                                         NCP PMT_DSC=
                                                                                                                     P.AAA
                                                                                         NCPS_CMDBUF_DSC==
                                                                                                                    P.AAC
                                                                                                    .EXTRN NCPSINIT TRMIO, NCPSREAD LINE .EXTRN NCPSWRITE LINE, NCPSPARSE CMD .EXTRN NCPSUNTELE, ACTSVRB_CLEXEC
                                                                                                               LIB$GET_FOREIGN
                                                                                                     .EXTRN
                                                                                                               NCPSG_BEGIN_ZERO
NCPSG_END_ZERO, NCPSG_STATE_TBL
                                                                                                     .EXTRN
                                                                                                     .EXTRN
                                                                                                               NCP$G_KEY_TBL
                                                                                                     .EXTRN
                                                                                                     .PSECT $CODE$, NOWRT, 2
                                                                          OFFC 00000 NCPSMAIN:
                                                                                                              Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
NCP$PARSE_CMD, R11
NCP$G_STATE_TBL, R10
NCP$G_KEY_TBL, R9
NCP$G_BEGIN_ZERO, R8
NCP$_CMDBUF_DSC, R7
CMD_DSC, R6
#8, SP
#0. NCP$INIT_TRMIO
                                                                                                     .WORD
                                                                                                                                                                             0110
                                                     5B 0000000G
                                                                             9E 00002
                                                                                                    MOVAB
                                                         00000000G
                                                                        ČŎ
                                                                             9Ē
                                                                                 00009
                                                                                                    MOVAB
                                                                        00
                                                                             9E 00010
                                                     59
                                                         0000000G
                                                                                                    MOVAB
                                                                        ŎŎ
                                                         0000000G
                                                                             9E 00017
                                                                                                    MOVAB
                                                     57
                                                         00000000
                                                                        ŎŎ
                                                                             9E 0001E
                                                                                                    MOVAB
                                                                             9Ē
                                                                                                    MOVAB
SUBL 2
                                                         00000000
                                                                        ŎŌ
                                                                                 00025
                                                     5E
                                                                        ŠŐ
                                                                                 0002C
                                      0000000G
                                                                        ÒŌ
                                                                             FB 0002F
                                                                                                               #O, NCPSINIT TRMIO
                                                                                                     CALLS
                                                     6D 00000000V
                                                                        ÕÕ
                                                                                                                                                                              0178
                                                                             9E 00036
                                                                                                               NCPSCOND_HDLR, (FP)
                                                                                                     MOVAB
```

NC

VO

NCPMAIN VO4-000		Main Entry NCP\$MAIN Main Entry					1	1 14 5-Sep-19 5-Sep-19	984 23:46 984 12:48	5:03 VAX-11 Bliss-32 V4.0-742 Page 7 B:14 DISK\$VMSMASTER:[NCP.SRC]NCPMAIN.B32;1 (3)	
		0000000G	00		00 56 7E 57	FB DD D4	00044		CALLS PUSHL CLRL	#0, ACT\$VRB_CLEXEC : 0180 : 0182 -(SP)	
		0000000G	00 1E		03 50	DD FB E9	0004A 00051		CLRL PUSHL CALLS BLBC TSTL	R7 #3, LIB\$GET_FOREIGN R0, 1\$ CMD_DSC	
0000*	8f	00	A 6 6E	08	66 1 A A 6 00 68	13 9E 20	00054 00056 00058 0005D 00064		BEQL MOVAB MOVC5	1\$ SYSIN_BUF, CMD_DSC+4 #0, (\$P), #0, # <ncp\$g_end_zero ncp\$g_begin_zero="">, NCP\$G_BEGIN_ZERO #^M<r9, sp=""> ***********************************</r9,></ncp\$g_end_zero>	
			6B	4200 0440	8F 8F 04 37	BB BB FB	00065 00069 0006D		PUSHR PUSHR CALLS	# MSKD.KIV2	
				F8	56 A7 57	DD 9F	00070 00072 00074 00077 00079	15:	BRB PUSHL PUSHAB PUSHL	#4, NCP\$PARSE_CMD 3\$ R6 NCP_PMT_DSC R7	
		00000000V 0001827A	00 0A 8F		03 50 50 10	FB E8 D1 13	00080 00083		CALLS BLBS CMPL BEQL	#3, NCP\$READ_CMD READ_STATUS, 2\$ READ_STATUS, #98938 3\$	
0000*	8F	00	6E	4200		04 20	0008C 0008D 00094	2\$:	RET MOVL5	#0, (SP), #0, # <ncp\$g 0218<br="" :="" end="" zero="">NCP\$G BEGIN ZERO>, NCP\$G BEGIN ZERO :</ncp\$g>	
		0000000G	6B 00	4200 0440	00 68 8F 04 00 01	BB BB FB FB			PUSHR PUSHR CALLS CALLS	#^M <r9,sp> ; 0225 #^M<r6,r10> ; 044, NCP\$PARSE_CMD #0, NCP\$UNTELE ; 0232</r6,r10></r9,sp>	
			50		Č9 01	11 00 04	000A7 000A9	3\$:	BRB MOVL RET	1\$ #1, R0 0236 0237	1

; Routine Size: 173 bytes, Routine Base: \$CODE\$ + 0000

```
NC
VO
```

```
B 15
15-Sep-1984 23:46:03
14-Sep-1984 12:48:14
                                                Main Entry
NCP$READ_CMD Read and build a command
NCPMAIN
                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 PROJECT PROJE
V04-000
                                                0238
0239
0240
0241
                                                                        *SBTTL 'NCP$READ_CMD Read and build a command'
        GLOBAL ROUTINE NCPSREAD_CMD (INP_DSC, PMT_DSC, RTN_DSC) =
                                                                               FUNCTIONAL DESCRIPTION:
                                                                                                  Read a command with comments (!) and continuation lines (-)
                                                 0245
0246
0247
0248
0249
                                                                                                  and return a descriptor to he line within the input buffer.
                                                                               FORMAL PARAMETERS:
                                                                                                  INP_DSC
PMT_DSC
                                                                                                                                                   Address of the input buffer descriptor
                                                0250
0251
0252
0253
                                                                                                                                                   Address of a descriptor of a prompt string
                                                                                                  RTN_DSC
                                                                                                                                                   Address of the descriptor to return
        256
257
258
                                                                               IMPLICIT INPUTS:
                                                 0254
                                                 ũ255
                                                                                                 NONE
                                                                                                                                                                                                                                    (
                                                0256
0257
        259
        260
                                                                               IMPLICIT OUTPUTS:
        261
                                                 0258
       0259
                                                                                                 NONE
                                                 0260
                                                 0261
                                                                               ROUTINE VALUE:
                                                0262
0263
0264
                                                                               COMPLETION CODES:
                                                                                                  Return code from NCP$READ_LINE
                                                 0265
                                                0266
0267
                                                                               SIDE EFFECTS:
                                                0268
0269
0270
0271
0272
0273
0274
0275
0276
0277
0278
0279
0280
                                                                                                 NONE
                                                                1
                                                                 1
                                                                                     BEGIN
                                                                                     LITERAL
                                                                                                                         = 32,
                                                                                                  SPACE
                                                                                                                                                                                                     ! Character code for a space
                                                                                                                          = 9
                                                                                                                                                                                                     ! Character code for a tab
                                                                                                  TAB
                                                                                     MAP
                                                                                                 INP_DSC : REF VECTOR [2], RTN_DSC : REF VECTOR [2], PMT_DSC : REF VECTOR [2]
                                                                                                                                                                                                         Input buffer descriptor
                                                 0281
0282
0283
0284
0285
0286
0287
0288
0289
                                                                                                                                                                                                          Return command descriptor
                                                                                                                                                                                                    ! Prompt descriptor
                                                                                     LOCAL
                                                                                                                                                                                                          Temp descriptor for command
                                                                                                  CMD_DSC : VECTOR [2],
                                                                                                  STATUS,
                                                                                                                                                                                                          Hold status value here
                                                                                                  CHAR,
                                                                                                                                                                                                          Temp for character
                                                                                                  LAST_ADR
                                                                                                                                                                                                          Temp for address of last byte of
                                                 0290
0291
0292
0293
                                                                                                                                                                                                     ! command
        296
297
                                                                                     CMD_DSC [0] = .INP_DSC [0];
CMD_DSC [1] = .INP_DSC [1];
                                                                                                                                                                                                    ! Initialize temp dsc
                                                 0294
```

```
V0
```

```
C 15
15-Sep-1984 23:46:03
14-Sep-1984 12:48:14
                    Main Entry NCP$READ_CMD Read and build a command
NCPMAIN
                                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                   Page
V04-000
                                                                                                                   DISK$VMSMASTER:[NCP.SRC]NCPMAIN.B32:1
   298
299
300
                     0295
0296
0297
                                    00
                                                                                    ! Read and skip comments
                                          IF NOT (STATUS =
   301
303
303
304
305
306
307
                     0298
                                                    NCP$READ_LINE
                                                                                    ! Read a line
                                                         CMD_DSC,
.PMT_DSC,
.RTN_DSC
                                                                                      Into here
                                                                                      With this prompt
                     0302
0303
0304
0305
                                                                                    ! Return descriptor here
                                                    )
    308
   309
310
311
312
314
                     0306
0307
                                    THEN RETURN .STATUS ! F WHILE CH$RCHAR (CH$PTR(.RTN_DSC [1]) ) EQLU !!
                                                                                    ! Return failure
                     0308
                                                                                    ! Comments begin with !
                     0309
                     0310
                                    DO
                     0312
0313
0314
0315
0316
   315
                                          BEGIN
   316
317
318
319
                                          LAST_ADR = .RTN_DSC [1] +
.RTN_DSC [0];
                                                                                    ! Address of last char + 1
                                               BEGIN
   0317
                                               LAST_ADR = .LAST_ADR - 1;
CHAR = CH$RCHAR (
                                                                                      Backup last address
                     0318
                                                                                      and fetch the character there
                     0319
                                                               CHSPTR (.LAST_ADR) )
                                               END
                                          WHILE (.CHAR EQLU SPACE) OR (.CHAR EQLU TAB)
                                                                                    ! Scan back until not blank
                                          IF .CHAR NEQU '-'
                                                                                    ! If this is not a continuation line
                                          THEN EXITLOOP
                                                                                    ! nope, we are done
                                         ! Read starting here
                                                                                    ! For the remaining space
                     0330
                                         END
                                    WHILE
                                          STATUS =
                                          NCP$READ_LINE
                                                                                    ! Read another line
                     0335
                     0336
                                               CMD_DSC,
ASCID ('_
                     0337
0338
0339
                                                                                    ! Prompt for continuation lines
                                               .RTN_DSC
                     0340
                                         )
                     0341
                                    RTN_DSC [0] = .LAST_ADR
- .INP_DSC [1] + 1;
RTN_DSC [1] = .INP_DSC [1];
RETURN .STATUS
                     0342
                                                                                    ! Return appropriate length
   346
347
                                                                                      and address
                     0345
    348
                                                                                    ! and the status code
   349
                     0346
                                     END:
```

.PSECT SPLITS, NOWRT, NOEXE, 2

00 00 20 5F 00014 P.AAE: .ASCII _ \<0><0>
00000002 00018 P.AAD: .LONG 2
.ADDRESS P.AAE

.PSECT	*CODE	\$,NOWRT,	. 2

		<u>56</u>	0000000G	0070	00002		.ENTRY	NCP\$READ_CMD, Save R2,R3,R4,R5,R6 NCP\$READ_LINE, R6	: 0239
		56 5E 54	04	04 C2	00000		SUBL2 MOVL	INP DSC, R4	0293
	04	AE 53	04 00	64 DE A4 DC AC DC 53 DE	00012	15:	PUSHL MOVL MOVL	(R4) 4(R4), CMD_DSC+4 RTN_DSC, R3 R3	0294 0302
			08 08	AC DE	0001D	10:	PUSHL PUSHL PUSH AB	PMT_DSC CMD_DSC	0301 0299
		66	00	03 FE	00023		CALLS	#5, NCP\$READ_LINE	. 0277
		66 42 21	04	B3 91	00029		BLBC CMPB	STATUS, 5\$ a4(R3), #33	0308
52	04	A3 55 20		EC 13 63 C3 72 97 55 D3	0002F 00034 00037	2 \$: 3 \$:	BEQL ADDL3 MOVZBL CMPL	1\$ (R3), 4(R3), LAST_ADR -(LAST_ADR), CHAR CHAR, #32	0314 0319 0321
		09		55 D1 F8 13 55 D1 F3 13	0003C		BEQL CMPL	3\$ CHAR, #9	: 0322
		20		F3 13	0003F 00041		BEQL CMPL	3\$ CHAR, #45	0324
	04	AE 6E	00000001	55 D1 18 12 52 D0 63 C2	00046 0004A		BNEQ MOVL SUBL 2 PUSHL	4\$ LAST_ADR, LMD_DSC+4 (R3), CMD_DSC R3	0327 0329 0338
			00000000°	00 9F	00055		PUSHAB PUSHAB	P.AAD CMD_DSC	; 0337 ; 0335
		66 D1 52	04	03 FE 50 E8	0005B	4 % •	CALLS BLBS SUBL2	#3, NCP\$READ_LINE STATUS, 2\$ 4(R4), R2_	0343
	04	52 63 A 3	01	A2 98	00062	₹♥•	MOVAB	1(R2), (R3)	:
	04	AS	04	A4 DC		5 \$:	MOVL Ret	4(R4), 4(R3)	0344

; Routine Size: 108 bytes, Routine Base: \$CODE\$ + 00AD

```
E 15
15-Sep-1984 23:46:03
14-Sep-1984 12:48:14
                     Main Entry NCP$COND_HDLR Condition handler
                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[NCP.SRC]NCPMAIN.B32;1
NCPMAIN
V04-000
                                **SBTTL 'NCP$COND_HDLR Condition handler' ROUTINE NCP$COND_HDLR (SIGARY, MCHARY) =
                     03449
033450
0335555555
03355557
03355567
03361
    ! FUNCTIONAL DESCRIPTION:
                                           Main condition handler for NCP. It receives a signal which is
                                           either an internal error or a standard system status. If it is
                                           an internal error, it prints a message. Otherwise it resignals
                                           the condition.
                                   FORMAL PARAMETERS:
                                           Standard condition handler argument list SIGARY Address of signal array
                                                                 Address of signal array
                     0362
0363
                                           MCHARY
                                                                 Address of mechanism array
                     0364
0365
0366
0367
    368
369
370
371
372
373
374
                                   IMPLICIT INPUTS:
                                           NONE
                      0368
                                   IMPLICIT OUTPUTS:
                     0369
0370
                                           NONE
                     0371
    376
377
                     0372
0373
                                   ROUTINE VALUE: COMPLETION CUDES:
   378
379
                      0374
                      0375
                                           Condition Resignaled, stack unwound
   380
381
382
383
384
386
388
388
389
                      0376
                     0377
                                   SIDE EFFECTS:
                      0378
                      0379
                                           NONE
                      0380
                      0381
                     0382
0383
                                      BEGIN
                      0384
                      0385
    390
                      0386
                                           SIGARY : REF BBLOCK, MCHARY : REF BBLOCK
                                                                                       ! Signal array
    391
392
                      0387
                                                                                       ! Mechanism array
                      0388
    393
                      0389
    394
395
                      0390
                                      LOCAL
                      0391
                                                                                       ! Error code value
                                           ERRCODE : BBLOCK [4]
    396
397
                     0392
    398
                      0394
                                      EXTERNAL LITERAL
    399
                      0395
                                           NCPS_FACILITY
                                                                                       ! NCP Facility code
                      0396
    400
                      0397
    401
   402
                      0398
                                      ERRCODE = .SIGARY [CHF$L_SIG_NAME]; ! The value of the status code
                      0399
    404
                      0400
                                      IF .ERRCODE [STS$V_FAC_NO]
     EQL NCP$_FACILITY
                                                                                       ! Is it ours?
                      0401
    405
                      0402
                                      THEN
    406
                                                                                       ! yes
    407
                                           BEGIN
```

VÕ

```
F 15
                  Main Entry NCPSCOND_HDLR Condition handler
                                                                            15-Sep-1984 23:46:03
14-Sep-1984 12:48:14
                                                                                                        VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER: ENCP. SRCJNCPMAIN. B32;1
NCPMAIN
V04-000
                                     0404
                                                                            ! Make signal array into message vec
   409
                  0406
   410
                                      SPUTMSG
                                                                              Write the message out
   411
   412 413 414
                   0408
                                           MSGVEC = .SIGARY
                   0409
                                      SIGARY [CHF$L_SIG_ARGS] = .SIGARY [CHF$[_SIG_ARGS] + 2
                   0410
                                                                              Make mess vec into signal array
   415
                   0411
                   0412
0413
0414
0415
   416
                                 ELSE
   418
                                      RETURN SS$_RESIGNAL
                                                                            ! Signal the error to the next handler
   442234567890123456789
                   0416
                                 MCHARY [CHF$L_MCH_SAVRO] = SUCCESS;! Set success for status on unwind
                   0418
                   0419
                                      .BBLOCK [SIGARY [CHF$L_SIG_NAME], STS$V_SEVERITY]
                  STS$K_SEVERE
                                 THEN
                                                                            ! If severe error then unwind
                                      BEGIN
                                      Perform cleanup operations here
                                                                              Unwind the stack to the caller
                                                                              of the establisher
                                      $UNWIND (DEPADR = MCHARY [CHF$L_MCH_DEPTH] )
                                      END
                                 RETURN SS$_CONTINUE
                                                                 ! Otherwise, continue from error
   440
   441
                                 END:
                                                                                        .EXTRN
                                                                                                 NCP$_FACILITY, SYS$PUTMSG
                                                                                        .EXTRN
                                                                                                 SYS$UNWIND
                                                                 0004 00000 NCP$COND_HDLR:
                                                                                                                                                        0348
0398
                                                                                        WORD
                                                                                                  Save R2
                                                                                                 SIGARY, R2
4(R2), ERRCODE
#16, #12, ERRCODE, #NCPS_FACILITY
                                              52
50
                                                                    D0
                                                                       00002
                                                                                        MOVL
                                                               DO 00006
                                                                                        MOVL
                             50
                                                                                                                                                         0401
0000000G 8F
                                              00
                                                                    ED 0000A
                                                                                        CMPZV
                                                                    12 00013
c2 00015
7C 00018
                                                                                        BNEQ
                                                                                                 1$ // (R2)
                                                                                                                                                        0405
                                              62
                                                                                        SUBL 2
                                                                                                  -(SP)
                                                                                        CLRQ
                                                                    D4
                                                                       0001A
                                                                                        CLRL
                                                                                                  -(SP)
                                                                    DD
                                                                       0001C
                                                                                        PUSHL
                                                                                                 #4, SYS$PUTMSG
#2, (R2)
                                                                    FB
CO
                                                                       0001E
00025
                                                                                        CALLS
                                 0000000G
                                                                                                                                                        0411
0410
0414
                                              62
                                                               06
8f
                                                                    11 00028
30 0002A 1$:
                                                                                        BRB
                                                       0918
                                                                                        MOVZWL
                                                                                                 #2328, RO
                                              50
                                                                       0002F
                                                                                        RET
                                                                       00030 2$:
                                                                                                 MCHARY, RO #1, 12(RO)
                                                                                                                                                        0417
                                                               AC
01
                                                         80
                                                                    DO
                                                                                        MOVL
                                        00
                                              A0
                                                                    DO
                                                                                        MOVL
```

NC

NCPMAIN VO4-000		Main Eng NCP\$CON	try D_HDLR Conditi	ion handler		G 15 15-Sep- 14-Sep-	1984 23:46:03 1984 12:48:14	VAX-11 Bliss-32 V4.0 DISK\$VMSMASTER:[NCP.	-742 Page 13 SRCJNCPMAIN.B32;1 (5)
	04	04	A2	03	00	ED 00038 12 0003E	CMPZV #0,	#3, 4(R2), #4	: 0420
			0000000G	00 50	7Ě 08 A0 02 01	04 00040 9F 00042 FB 00045 DO 0004C 3\$:	CLRL -(SP PUSHAB 8(RO)	0431 0435 0437

; Routine Size: 80 bytes, Routine Base: \$CODE\$ + 0119

NCPMAIN VO4-000	Main Entry NCP\$COND_HDLR Condition handler	H 15 15-Sep-1984 23:46:03 14-Sep-1984 12:48:14	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER:[NCP.SRC]NCPMAIN.B32;1	14 (6)
: 443 : 444 : 445	0438 1 0439 1 END 0440 0 ELUDOM	!End of module		

PSECT SUMMARY

Name	Bytes	Attributes	Attributes					
SOWNS SPLITS SCODES	1032 32 361	NOVEC, WRT, RD , NOEXE, NOSHR, NOVEC, NOWRT, RD , NOEXE, NOSHR, NOVEC, NOWRT, RD , EXE, NOSHR,	LCL, LCL,		CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)			

Library Statistics

File	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[NCP.OBJ]NCPLIBRY.L32;1 _\$255\$DUA28:[SYSLIB]STARLET.L32;1 _\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	373	15	1	52	00:00.1
	9776	14	0	581	00:01.5
	42	0	0	14	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NCPMAIN/OBJ=OBJ\$:NCPMAIN MSRC\$:NCPMAIN/UPDATE=(ENH\$:NCPMAIN)

; Size: 361 code + 1064 data bytes ; Run Time: 00:09.1 ; Elapsed Time: 00:31.5 ; Lines/CPU Min: 2910 ; Lexemes/CPU-Min: 13078 ; Memory Used: 74 pages ; Compilation Complete

0267 AH-BT13A-SE

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